Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	10259	sip or session adj initiat\$4 adj protocol	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:42
L2	121691	1 and execut\$4 (software or program) and client	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:02
L3	1810	(sip or session adj initiat\$4 adj protocol) near2 message	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:02
L4	257	3 and execut\$4 near2 (software or program) and client	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:06
L5	291	3 and execut\$4 near2 (software or program or code) and client	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:39
L6	1177	(sip or session adj initiat\$4 adj protocol) adj message	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:10
L7	188	5 and 6	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:37
L8	2	"6389007".pn.	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:39
L9	103	5 not 7	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:41
L10	87	9 and session	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:41

L11	400708	10 adn protocol	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:41
L12	84	10 and protocol	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:41
L13	34	(sip or session adj initiat\$4 adj protocol) same execut\$4 adj (program or software)	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:44
L14	7	(sip and session adj initiat\$4 adj protocol) same execut\$4 adj (program or software)	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 12:45



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- #1 ((sip or session initiation protocol or session initiated protocol<in>metadata)<and>(java<in>metadata))
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ChaiTime: a system for rapid creation of portable next-generationtelephony services using third-party software components

Anjum, F. Caruso, F. Jain, R. Missier, P. Zordan, A. Bellcore, Morristown, NJ;

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Abstract

We present the architecture, design and experimental research prototype implementation of ChaiTime, an open system architecture for the rapid development of advanced next generation telephony services that overcomes some of the limitations of the current closed PSTN architecture and service model. ChaiTime allows communication sessions to be set up over the PSTN, the Internet, or a combination of both. Services can be provided by multiple cooperating distributed service providers, some of whom may use third party software components which can be "plugged in" or even dynamically downloaded from the network as needed. This allows advanced services to be deployed and delivered to users rapidly; a crucial requirement in the increasingly competitive telecommunications services marketplace. ChaiTime is built upon an object oriented call model called Java Call Control (JCC) which we have defined as a small set of extensions to the standard Java Telephony API (JTAPI) call model that allows support for distributed providers as well as advanced services. JCC hides details of underlying call state management, protocols and hardware from applications. In our prototype, we have designed a small set of extensions to SIP, called Extended SIP, for supporting advanced services. The ChaiTime prototype software is currently operational in our laboratory. We briefly describe its current implementation as well as future work to address issues such as fault tolerance

Index Terms Inspec

Controlled Indexing

Internet telephony Java application program interfaces computer telephony integration open systems telephone networks

Non-controlled Indexing

ChaiTime Extended SIP Internet JCC JTAPI call model Java Call Control advanced next generation telephony services advanced services closed PSTN architecture communication sessions competitive telecommunications services marketplace fault tolerance multiple cooperating distributed service providers object oriented call model open system architecture portable next generation telephony services rapid creation standard Java Telephony API third party software components underlying call state management

Author Keywords

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